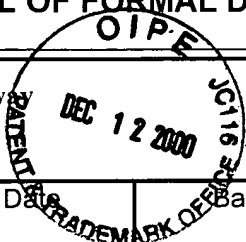


TRANSMITTAL OF FORMAL DRAWINGS

Docket No.
BUR9-1999-0235-US1

4700

In Re Application Of: D. Hathaway



#5
mef
3/20/01

Serial No.

09/617,908

Filing Date

7/14/00

Batch No.

Examiner

Art Unit

Invention: METHOD AND APPARATUS FOR MAKING INTEGRATED CIRCUITS HAVING GATED
CLOCK TREES

Address to:

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09-617,908-0235-0001

Mark R. Ferran
Signature

Dated: 12/7/00

Mark R. Ferran
Reg. No. 46,695
Schmeiser, Olsen & Watts
3 Lear Jet Lane, Suite 201
Latham, NY 12110
(518) 220-1850

I certify that this document and attached formal drawings
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Kim Dwileski
Signature of Person Mailing Correspondence

Kim Dwileski

Typed or Printed Name of Person Mailing Correspondence

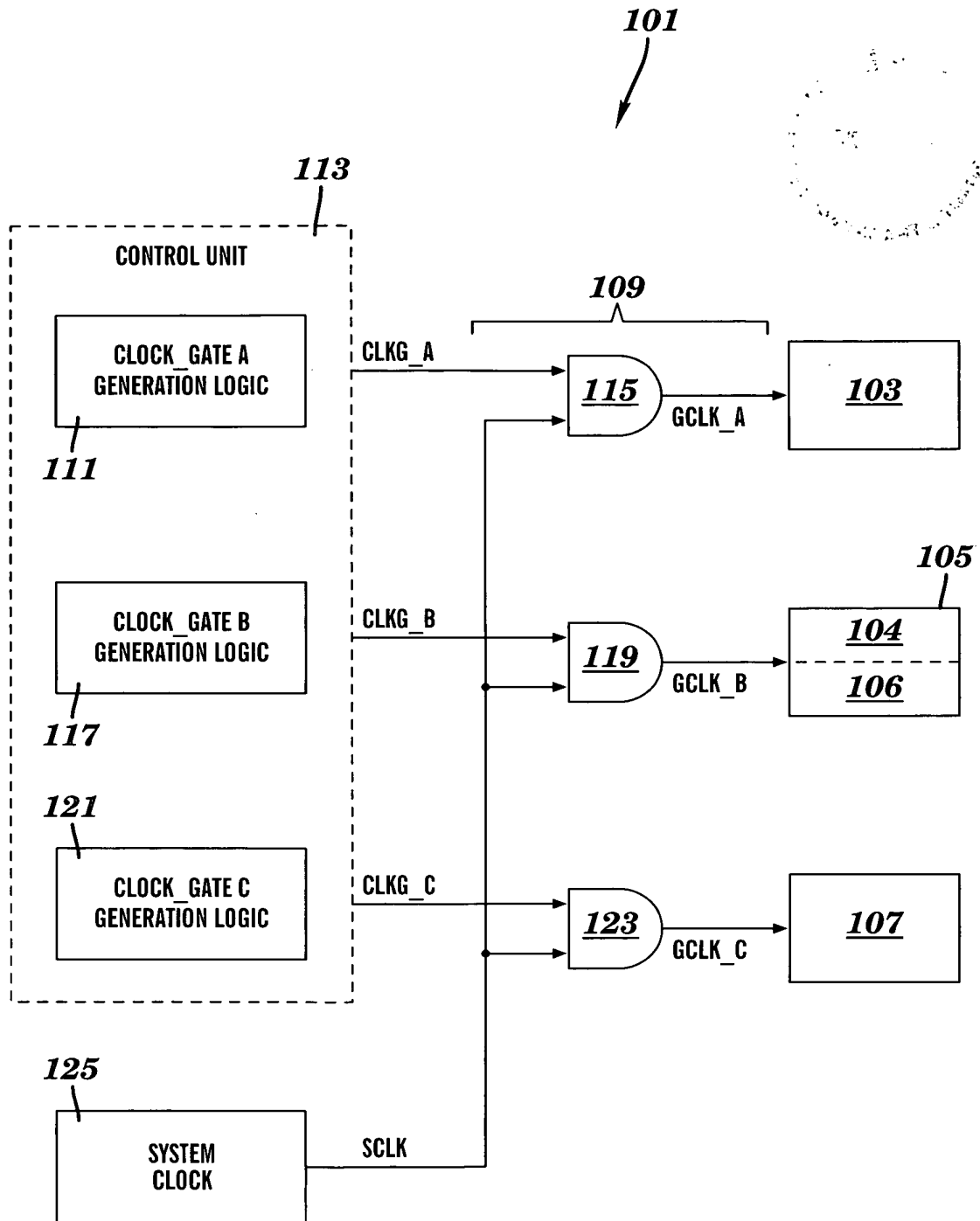


FIG. 1a

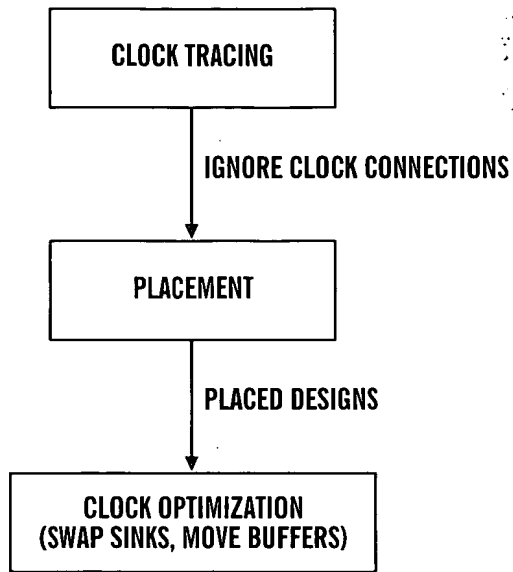


FIG. 1b

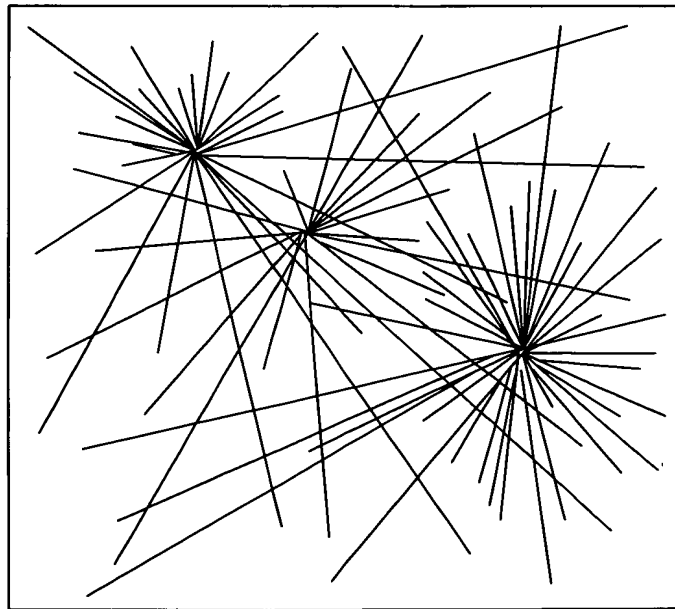


FIG. 1c

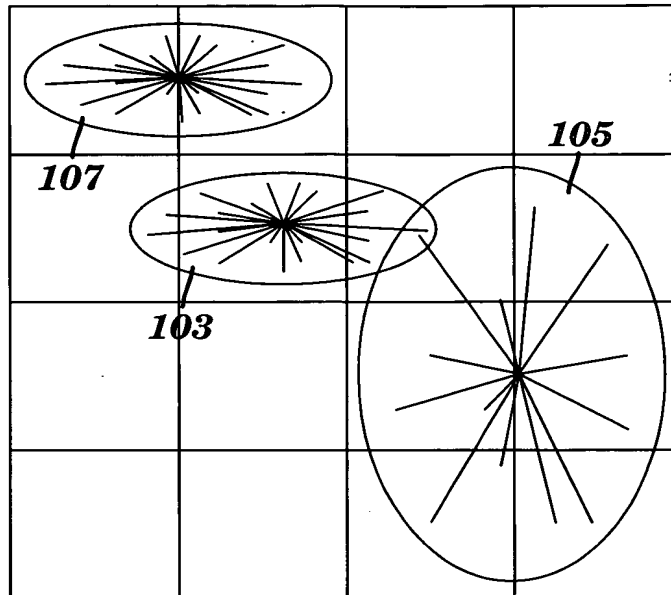


FIG. 2a-i

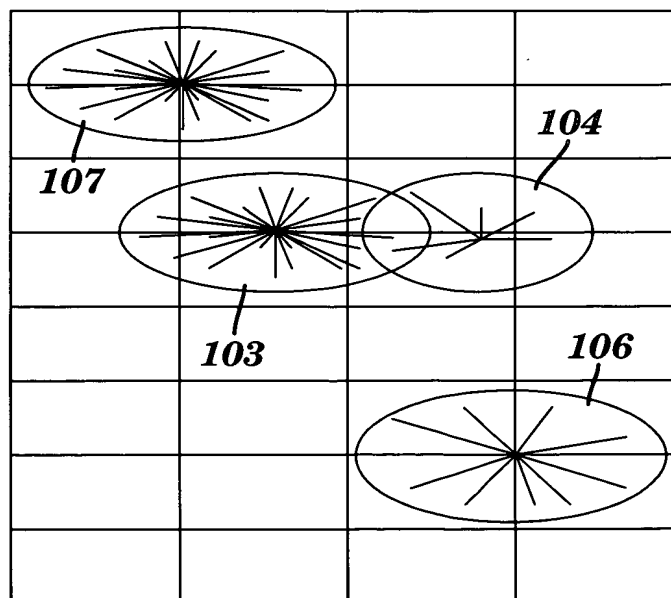


FIG. 2a-ii

FOUO 6522960

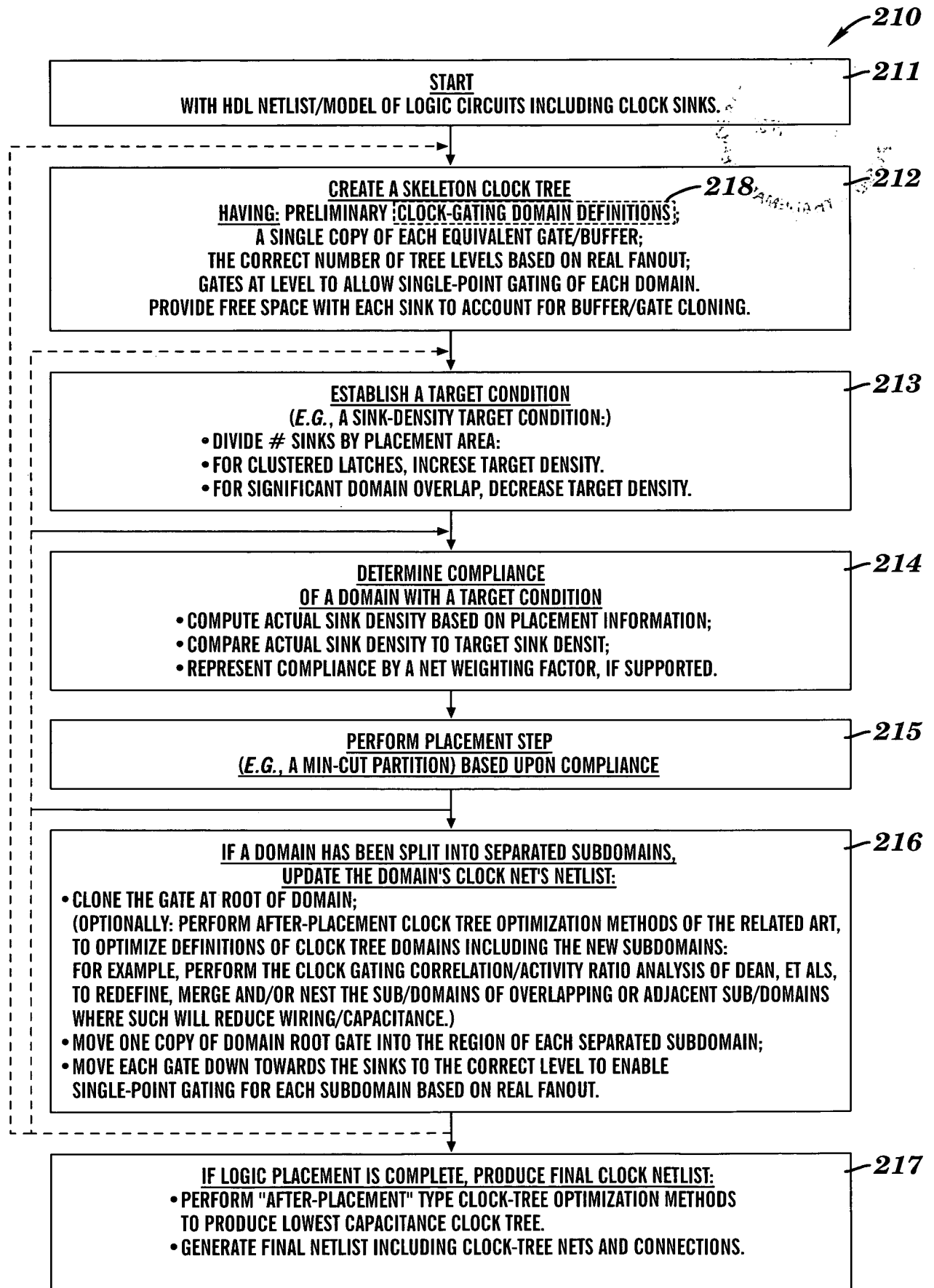


FIG. 2b

201 →

FIG. 2c

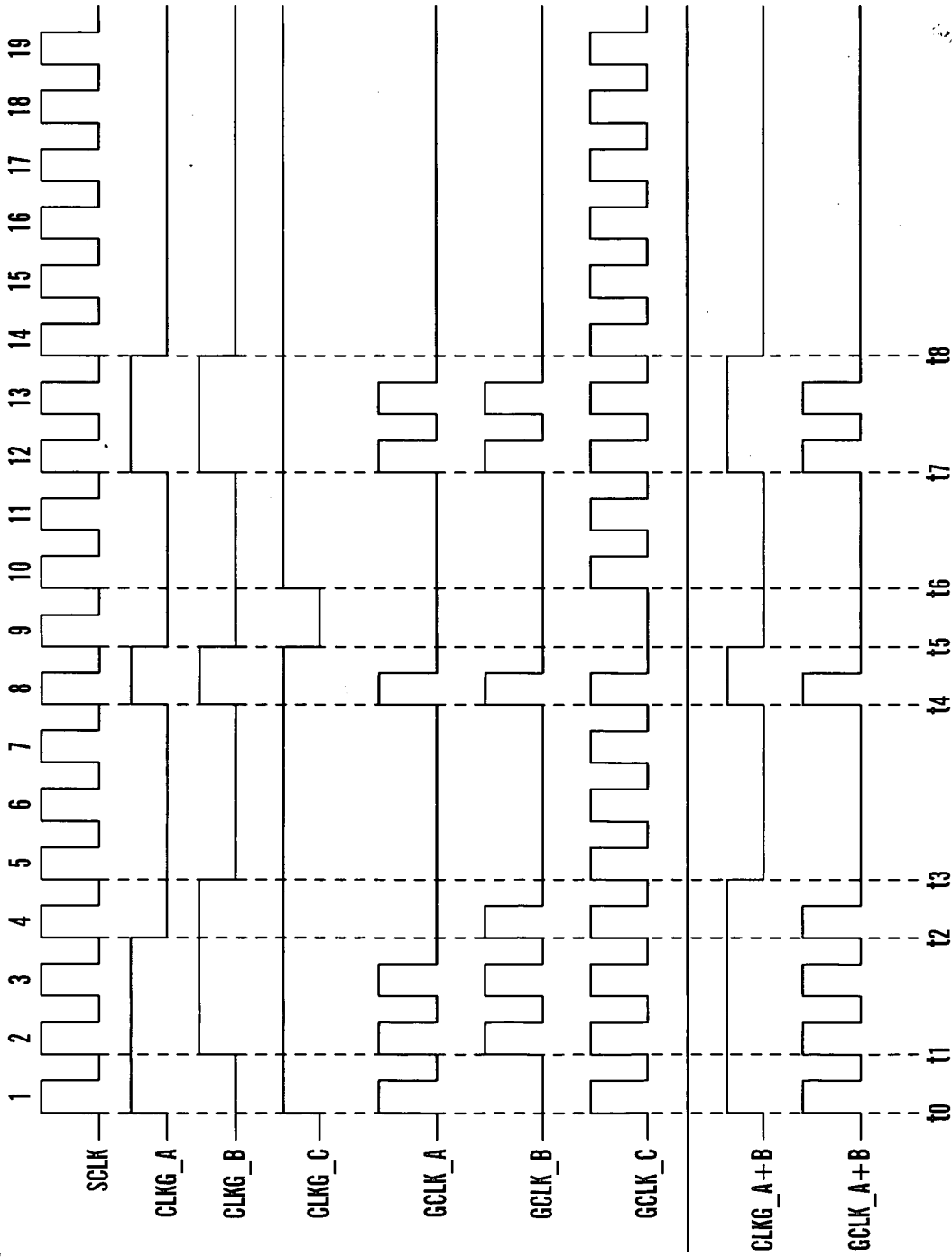


FIG. 2c

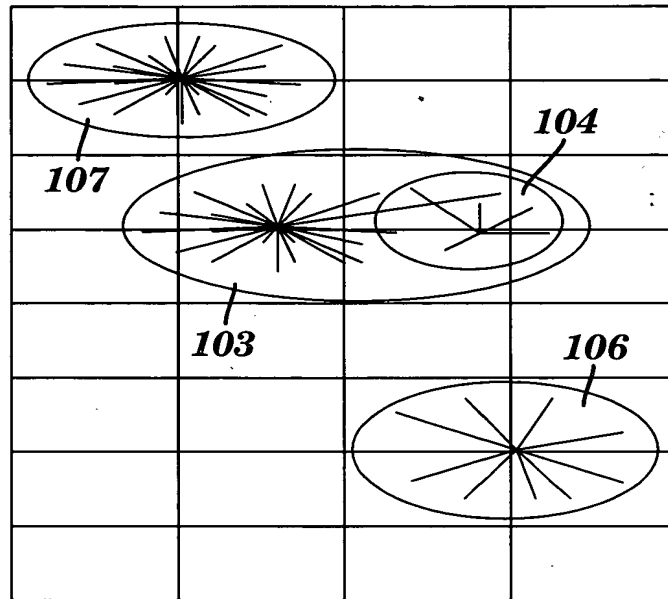


FIG. 2d

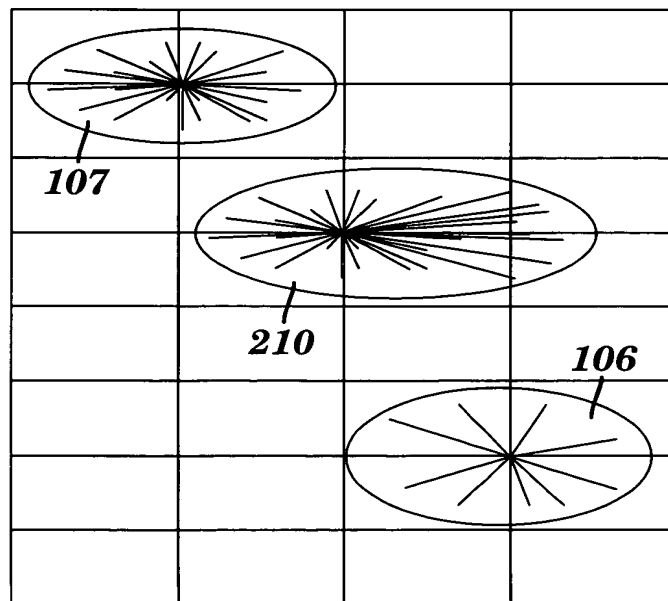


FIG. 2e

FIG. 2d

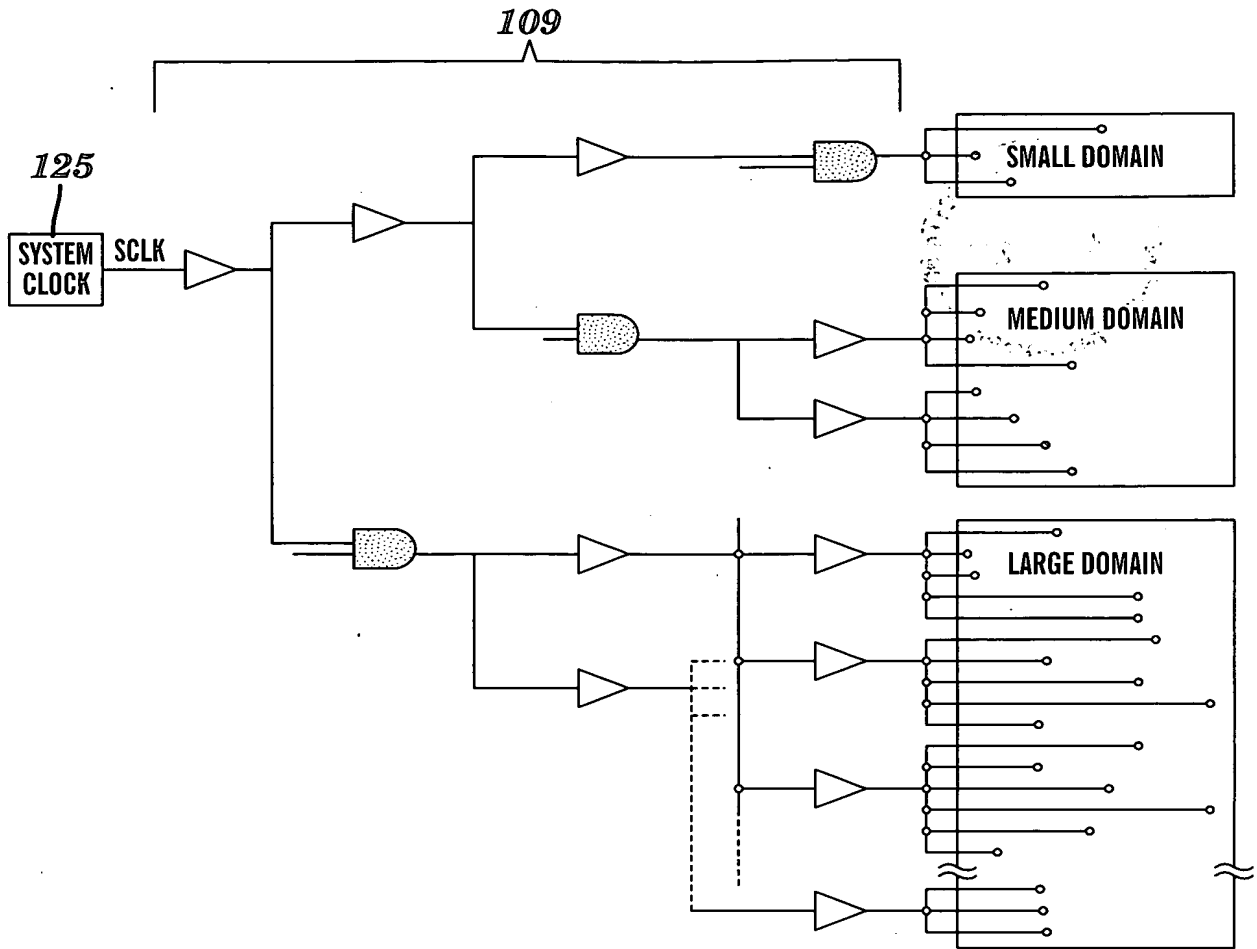


FIG. 2f

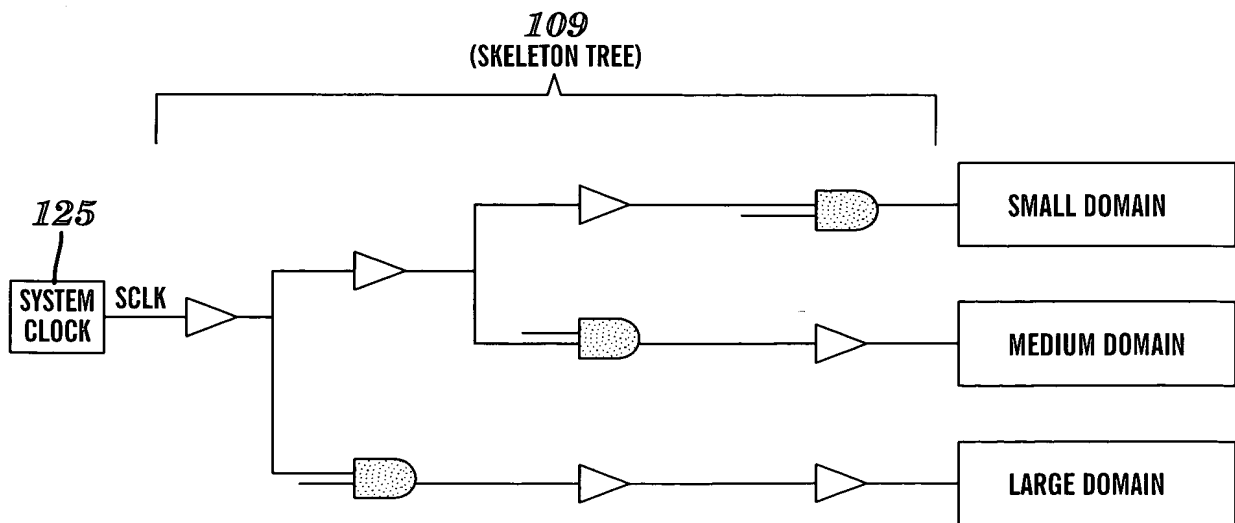


FIG. 2g

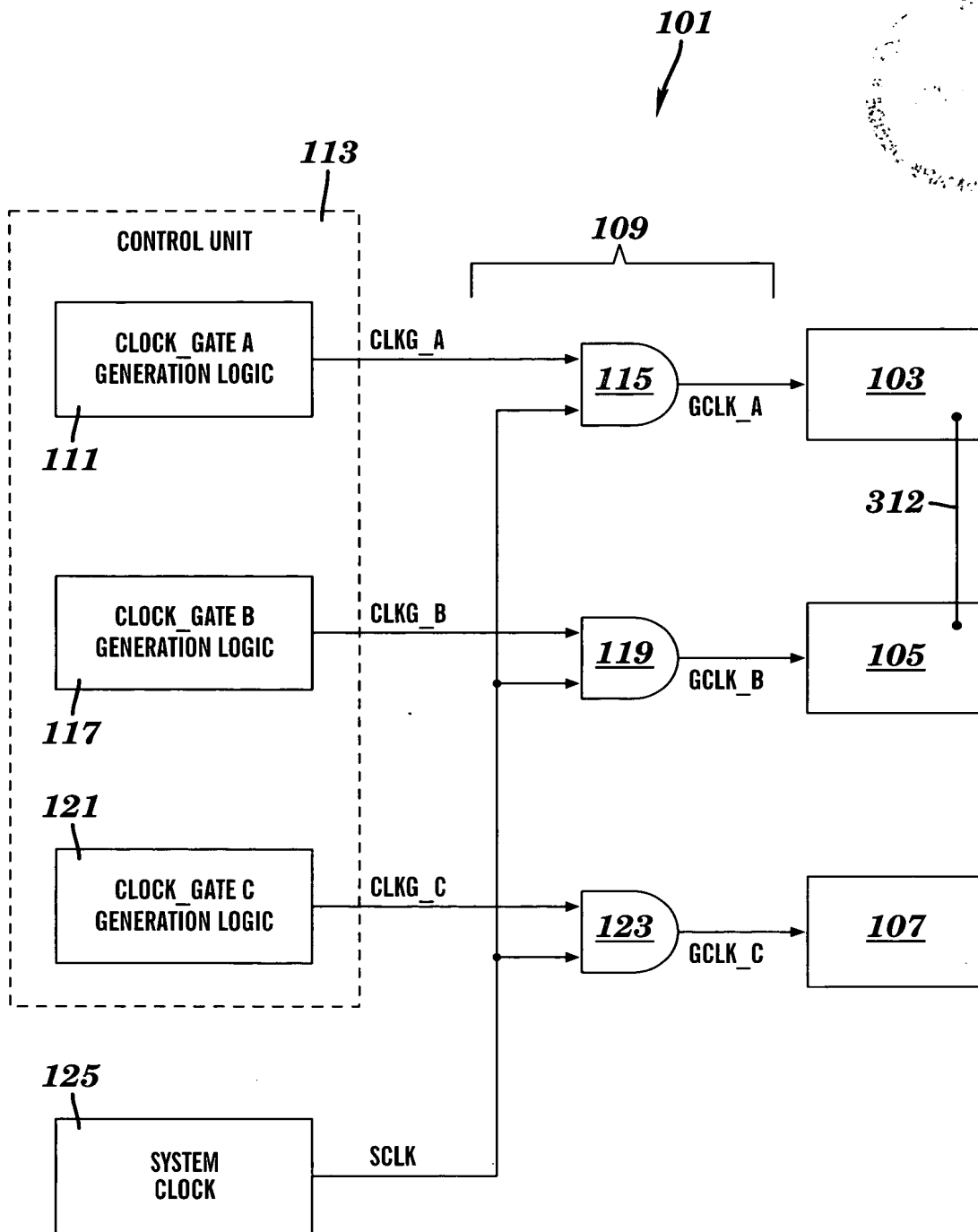


FIG. 3a

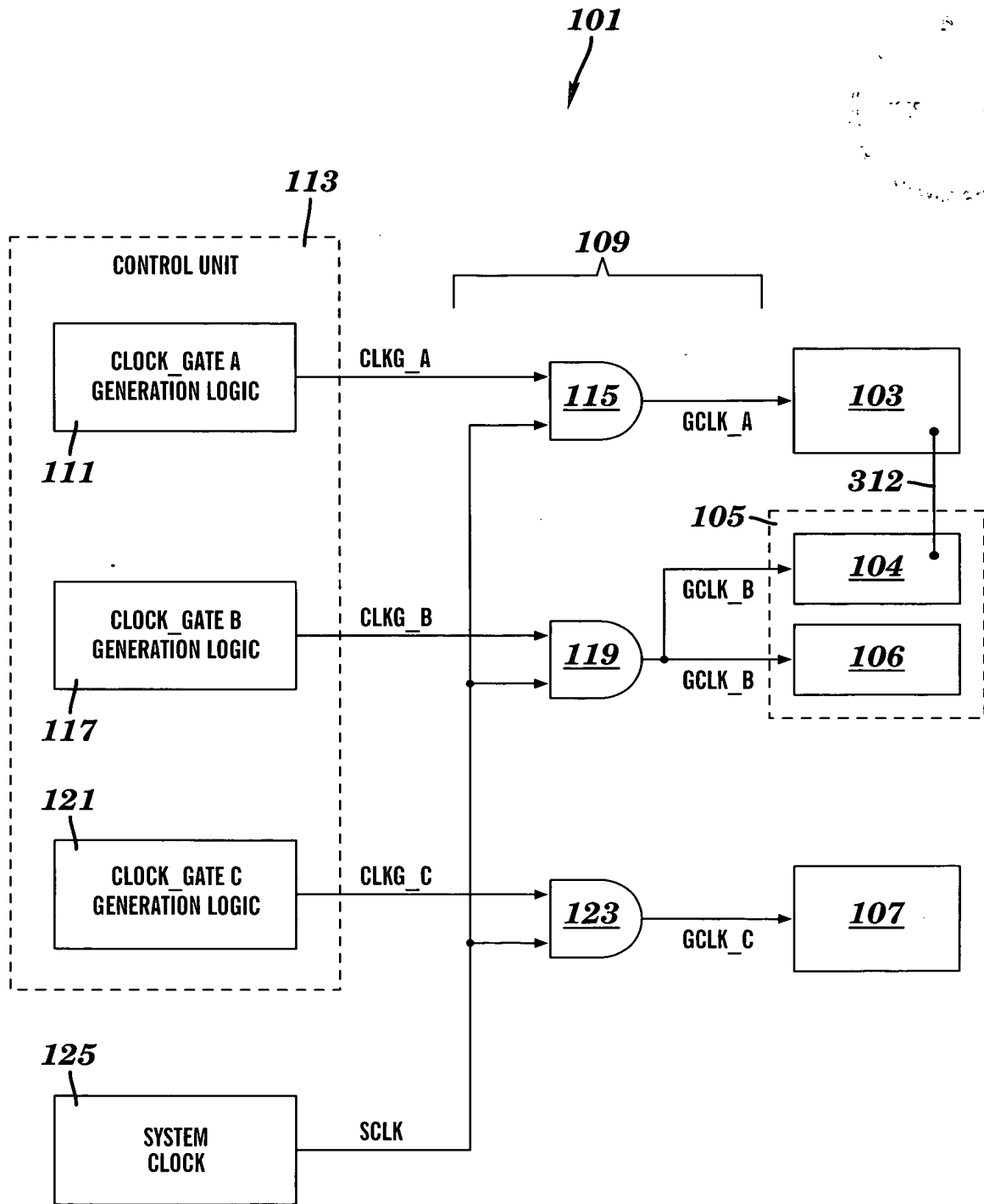


FIG. 3b

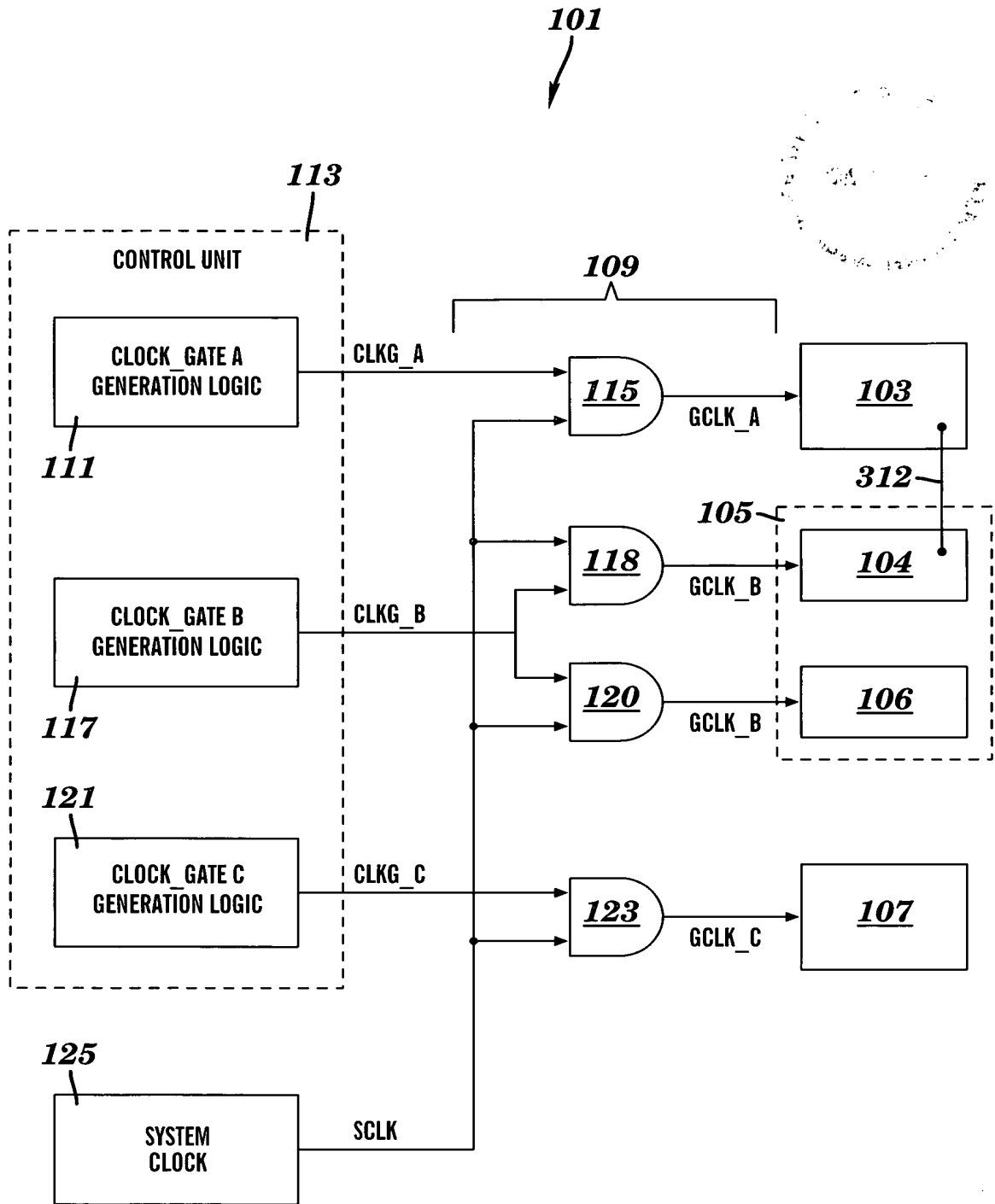


FIG. 3c

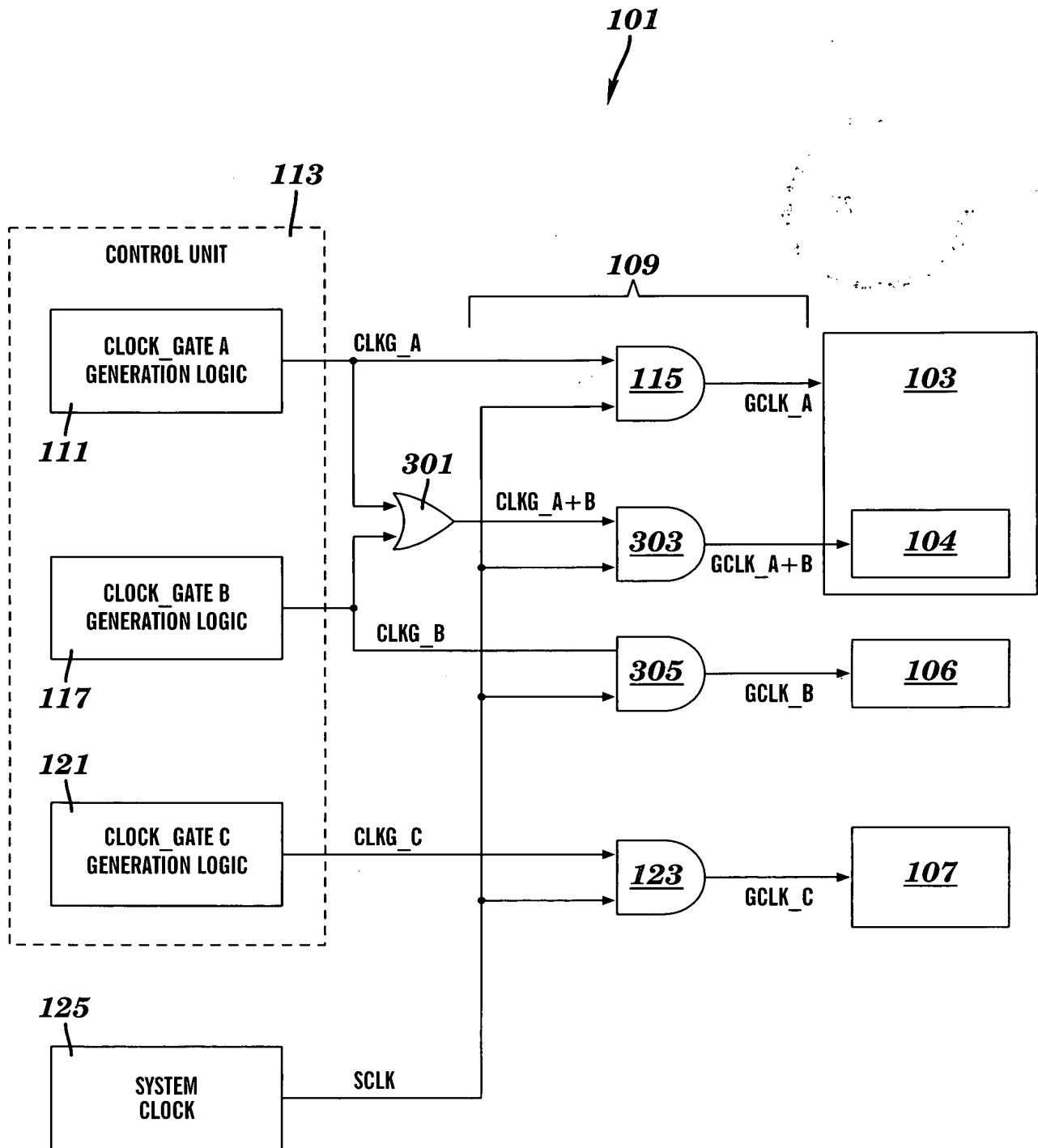


FIG. 3d

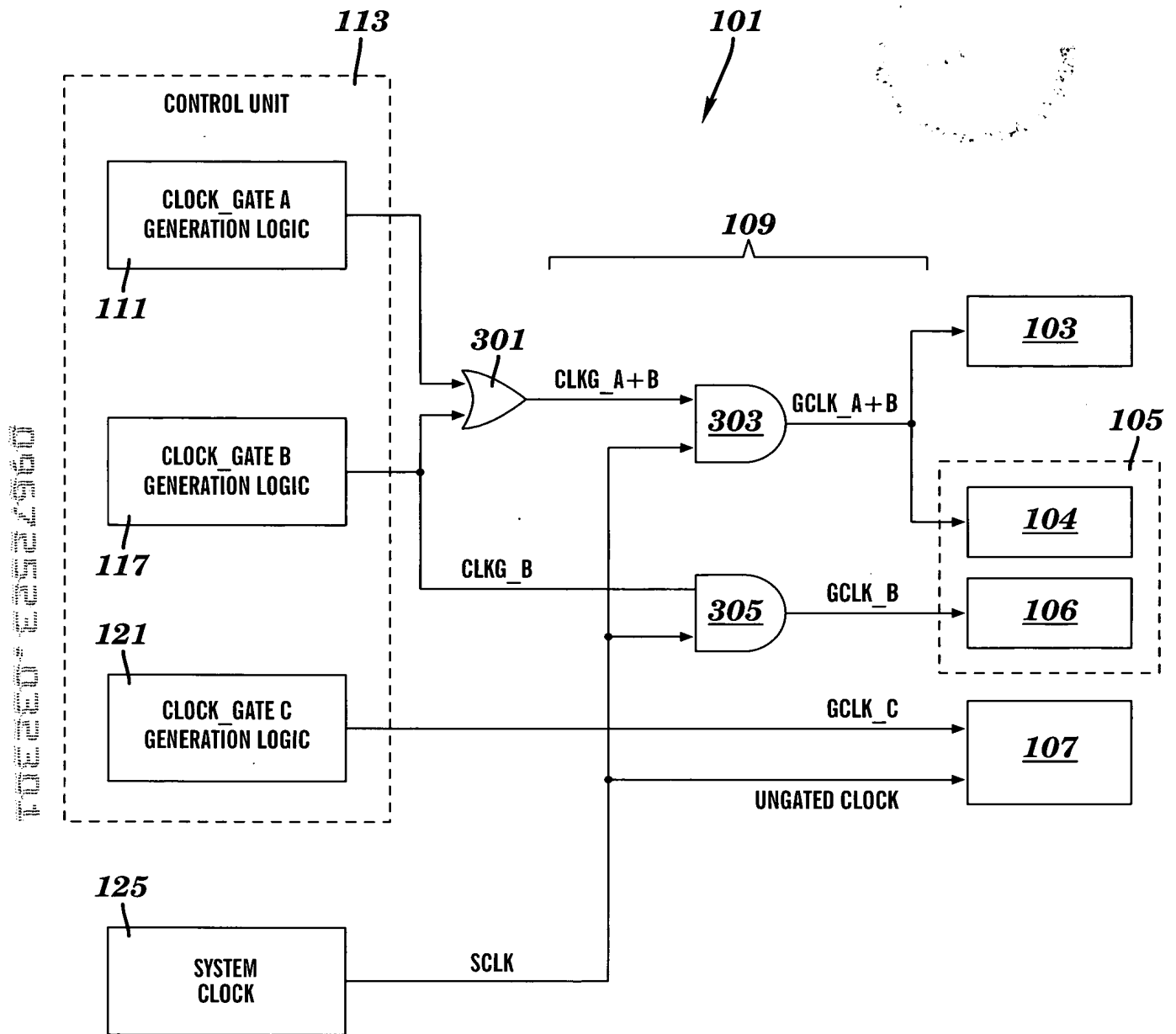


FIG. 3e

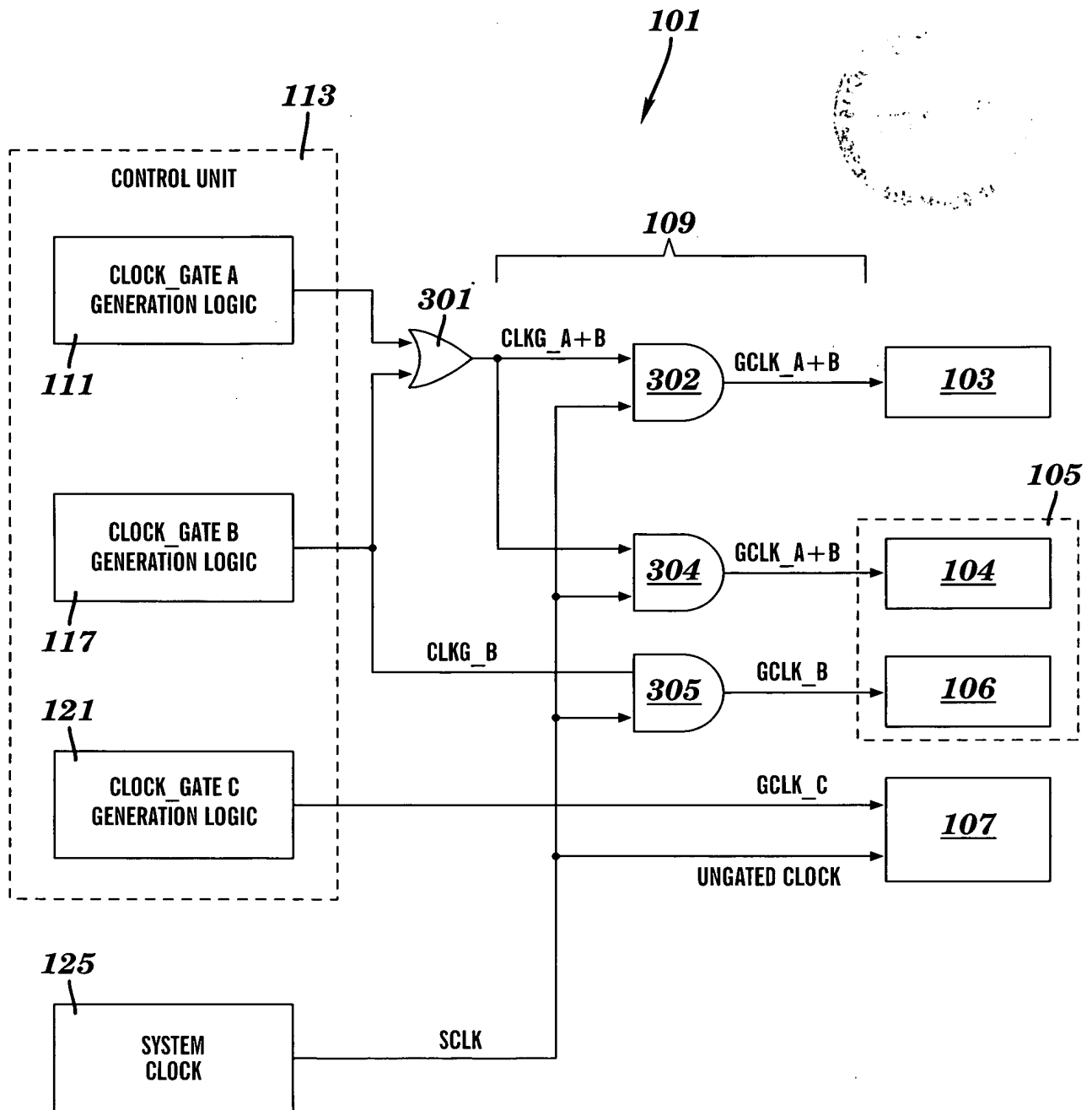


FIG. 3f

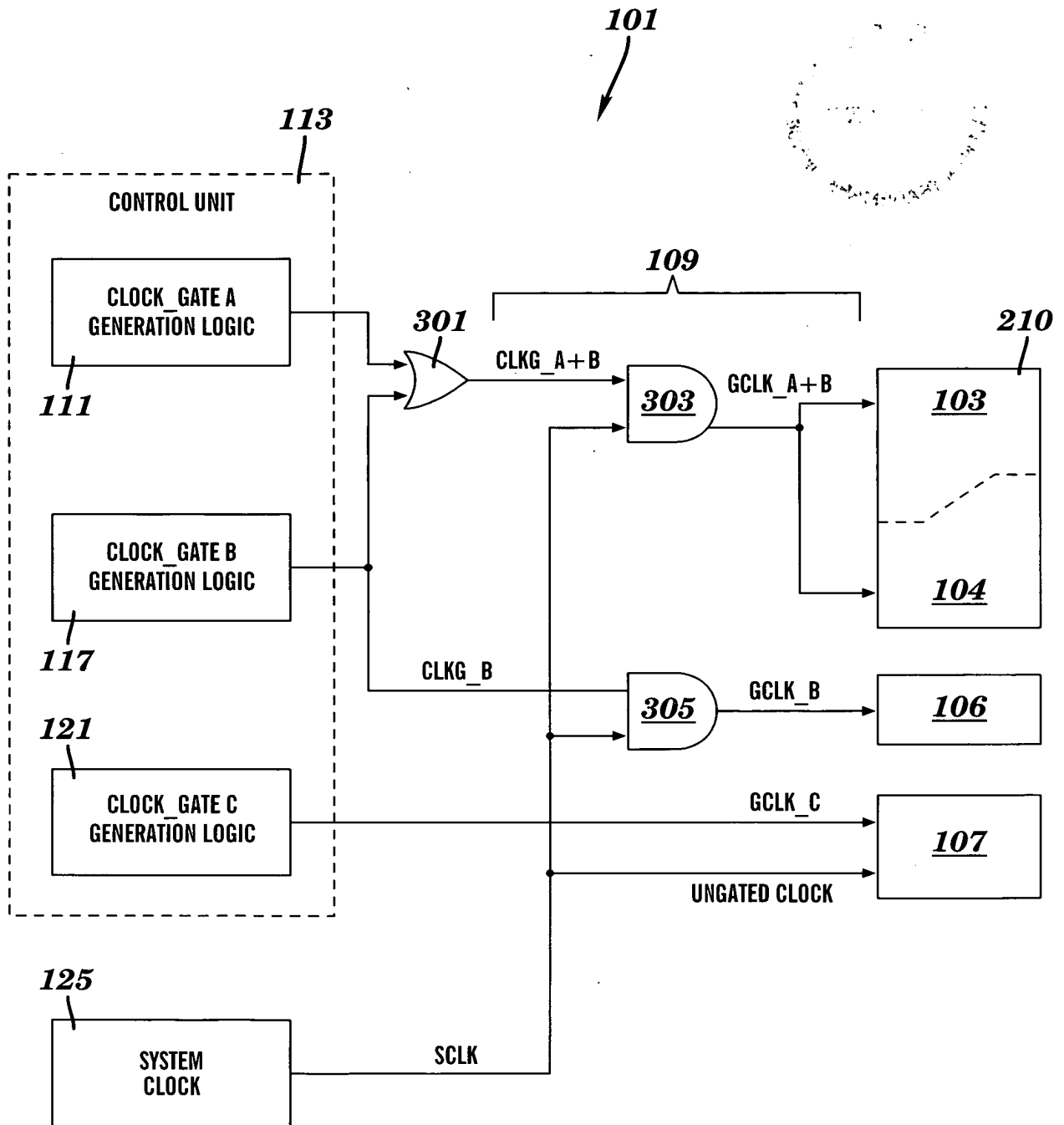


FIG. 3g

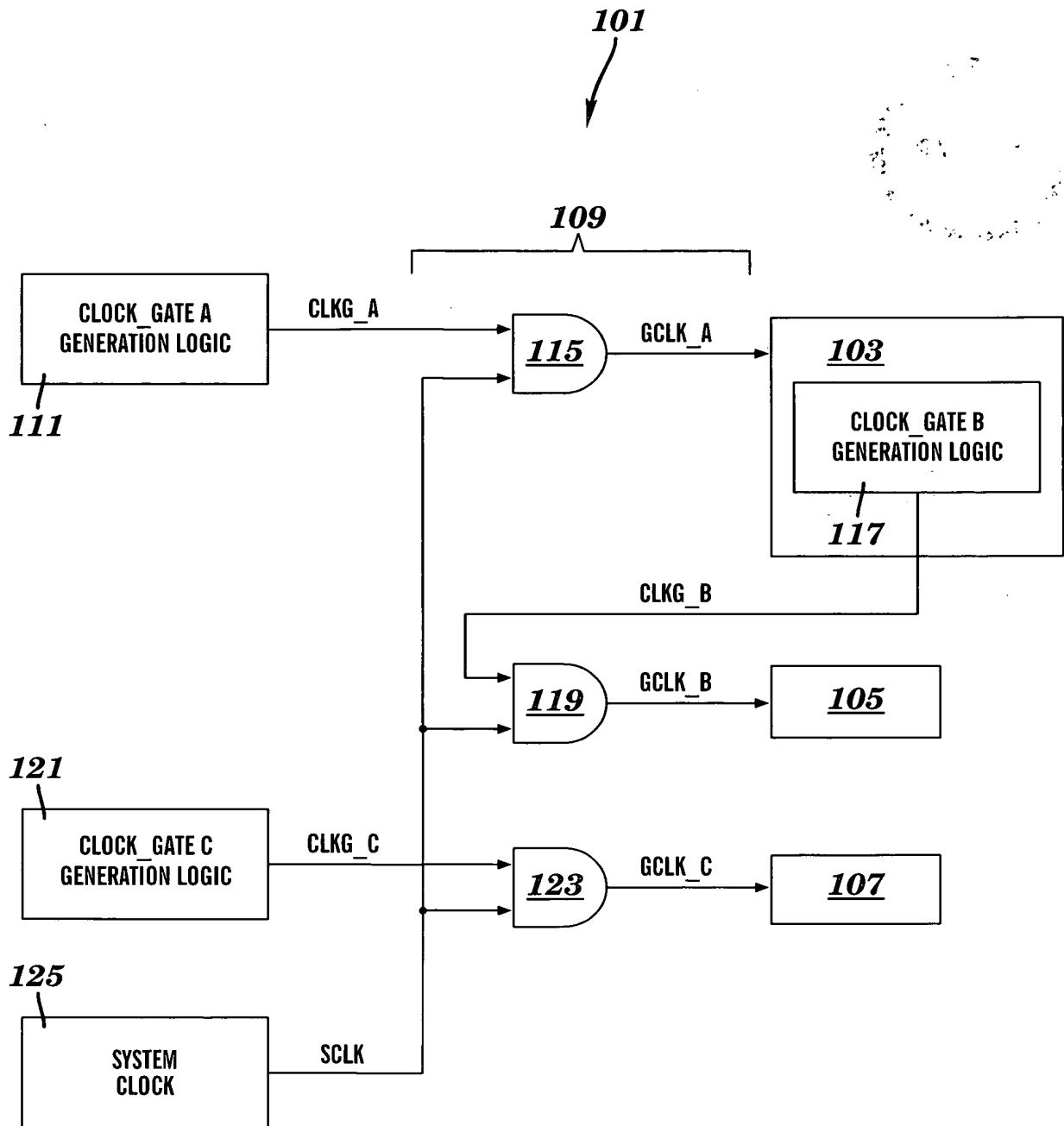


FIG. 3h

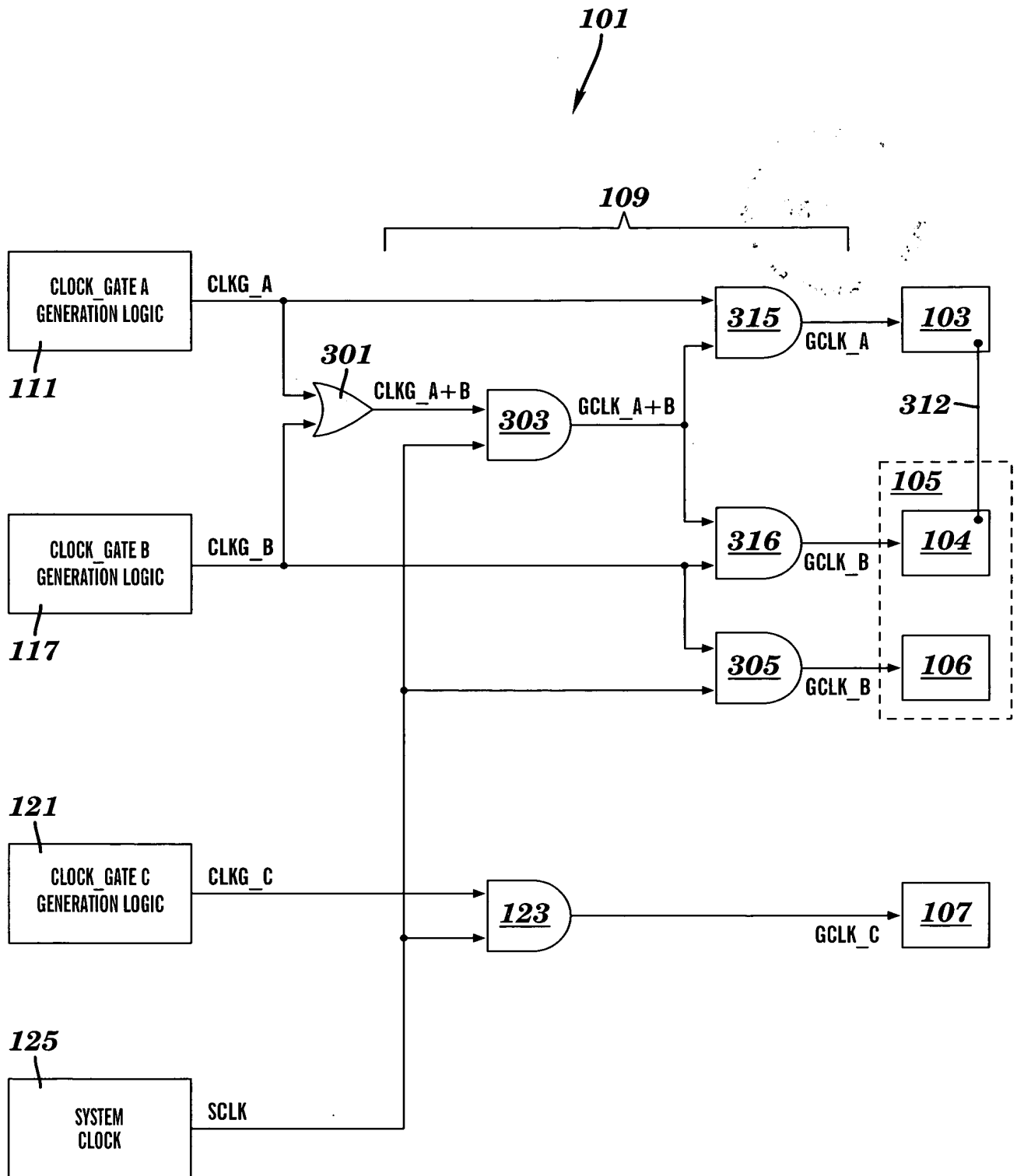


FIG. 3i

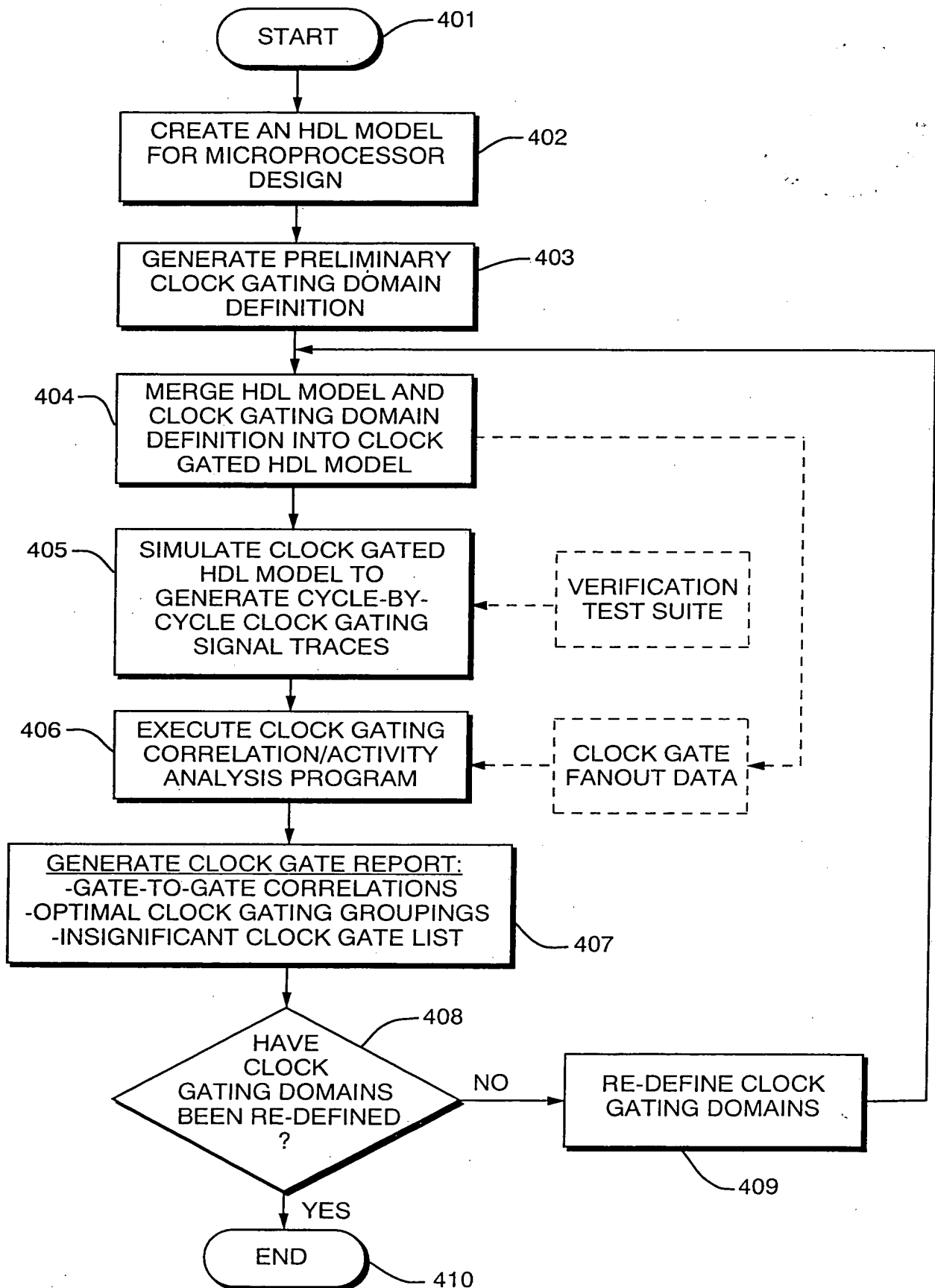


FIG. 4

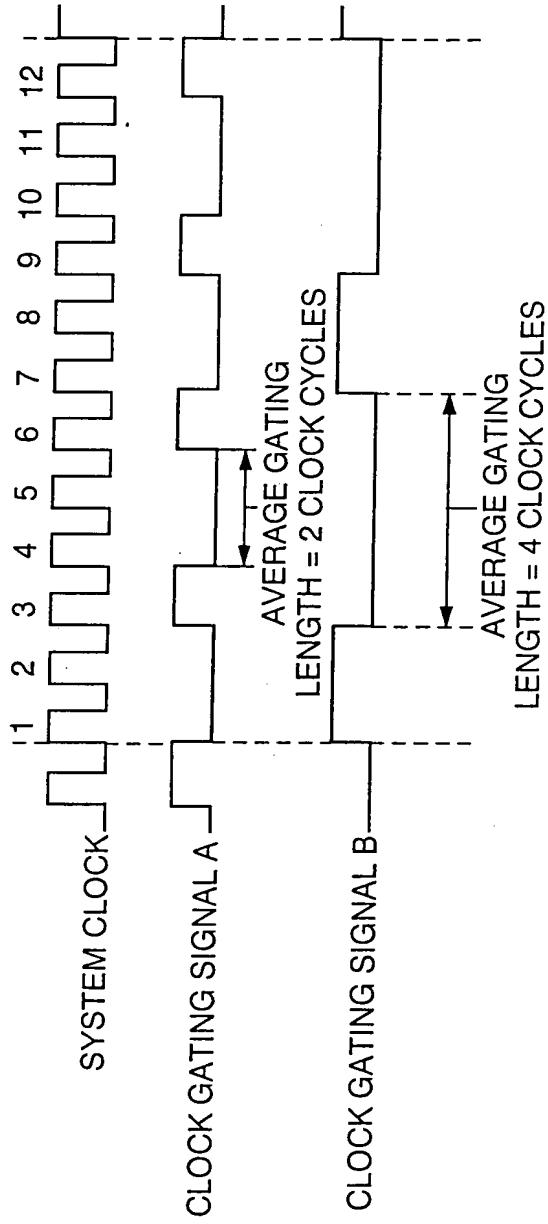


FIG. 5

ClockGate Analysis

603 { Calculated number of clockgates: 3
57 Vectors analyzed
Writing activity file clock_groups.aet

605 { ClockGate Report

Clock	Activity	%Latches	Usefullness ((1-activity) * (%Latches*100))
CLKG_A	0.316	0.40	27.4
CLKG_B	0.316	0.50	34.2
CLKG_C	0.947	0.10	0.5

Useless CLOCKGATES as defined by threshold: 5
Signal CLKG_C has a usefullness metric of 0.5

Writing Correlation File clock_groups.cor
Correlated CLOCKGATE Groups at threshold: 0.9

GROUP 1 Correlation=

CLKG_A : activity 0.316

CLKG_B : activity 0.316

CLOCK_GROUPS.COR file

Signal Correlation Report

607 {

	C	C	C
	L	L	L
	K	K	K
	G	G	G
	\bar{A}	\bar{B}	\bar{C}
CLKG_A	1.00	0.95	0.37
CLKG_B	0.95	1.00	0.37
CLKG_C	0.37	0.37	1.00

609 }

FIG. 6

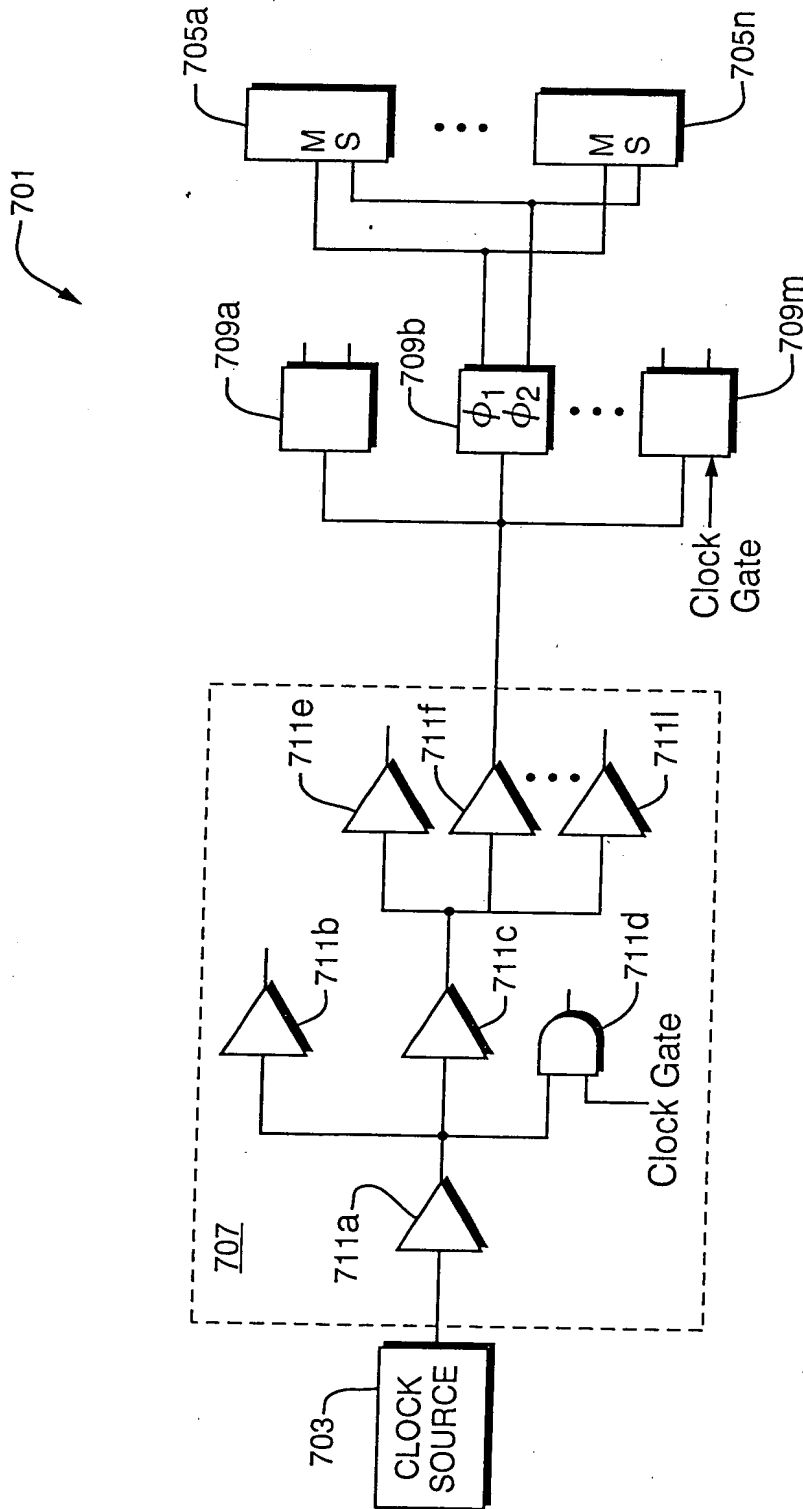


FIG. 7

801

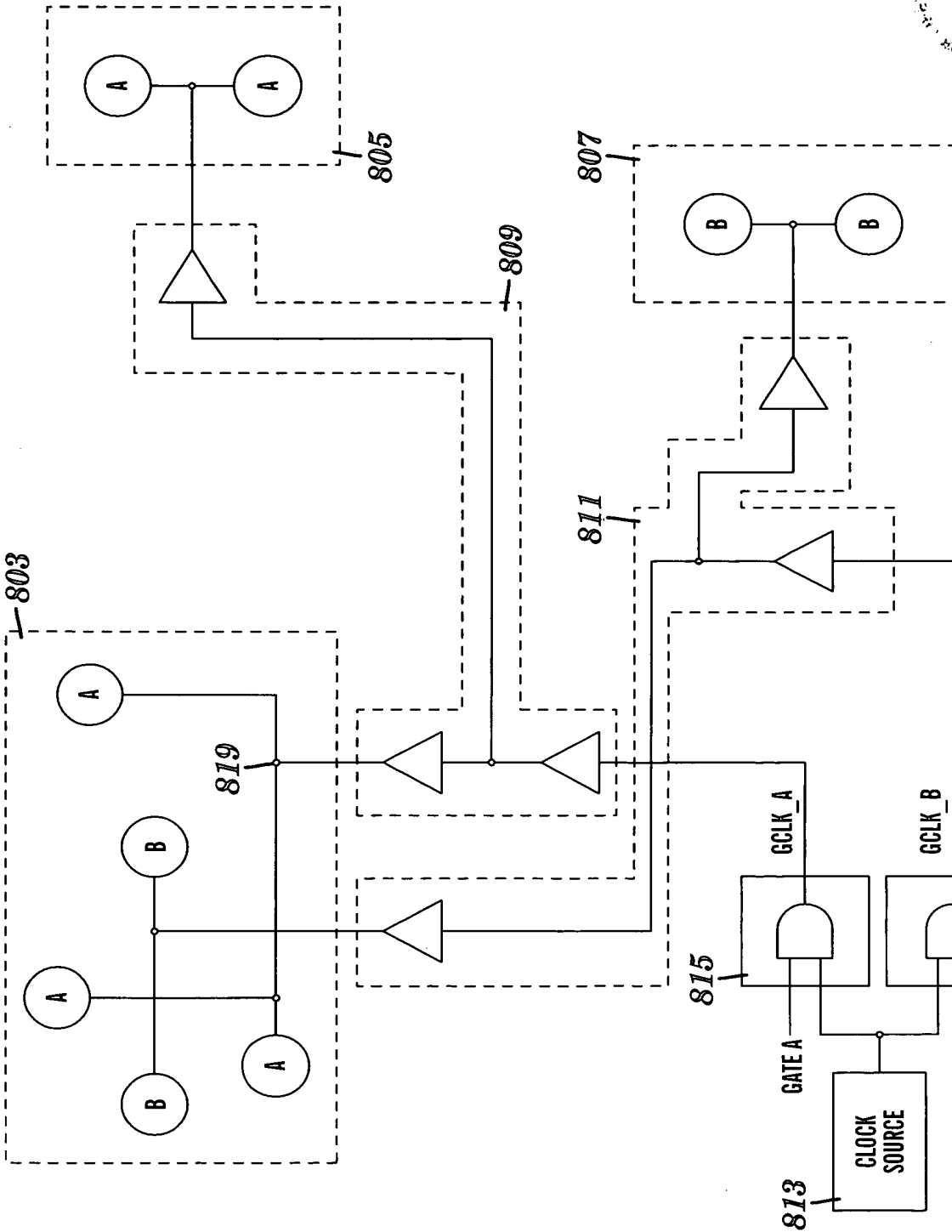


FIG. 8a

FIG. 8a

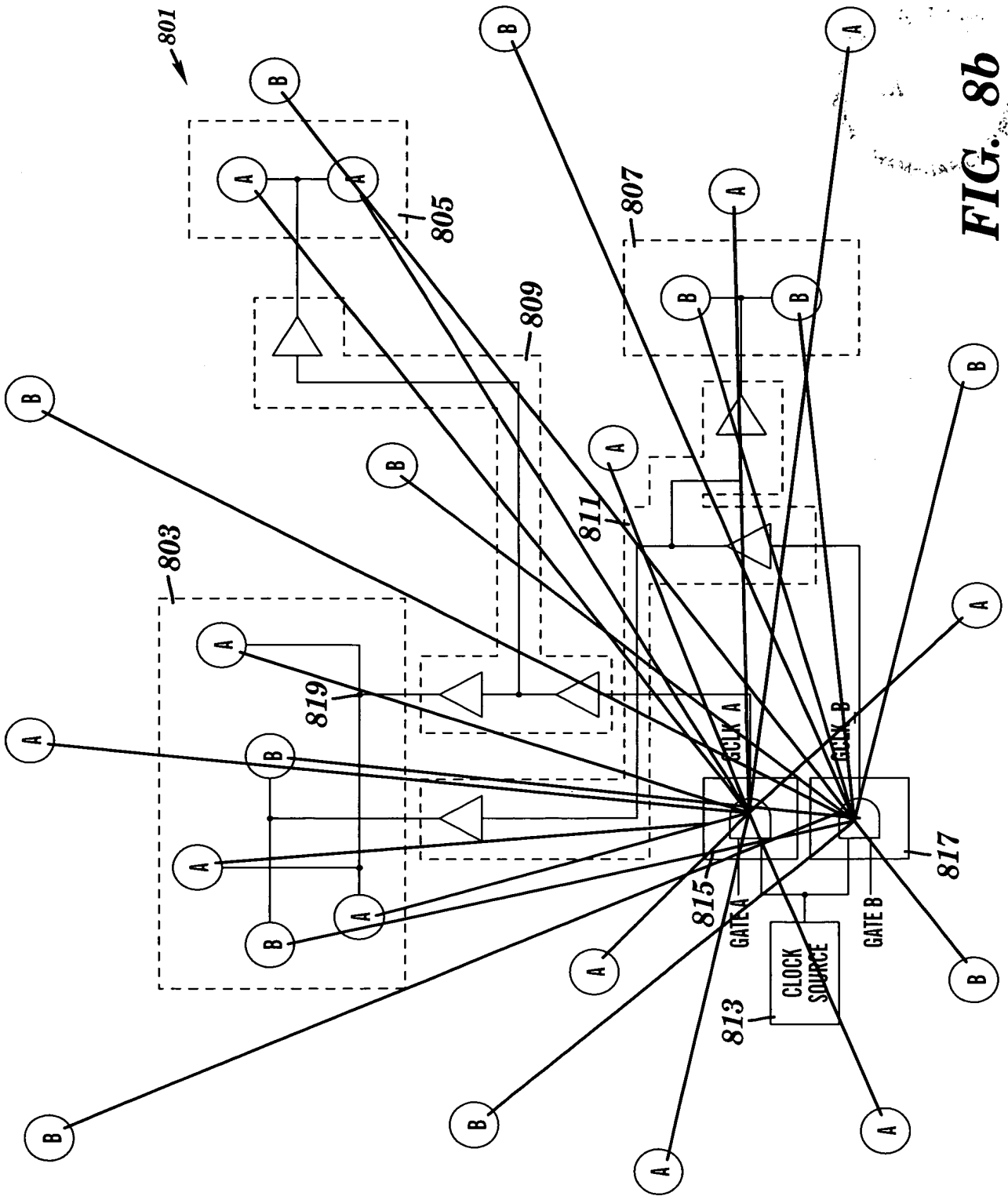


FIG. 8b

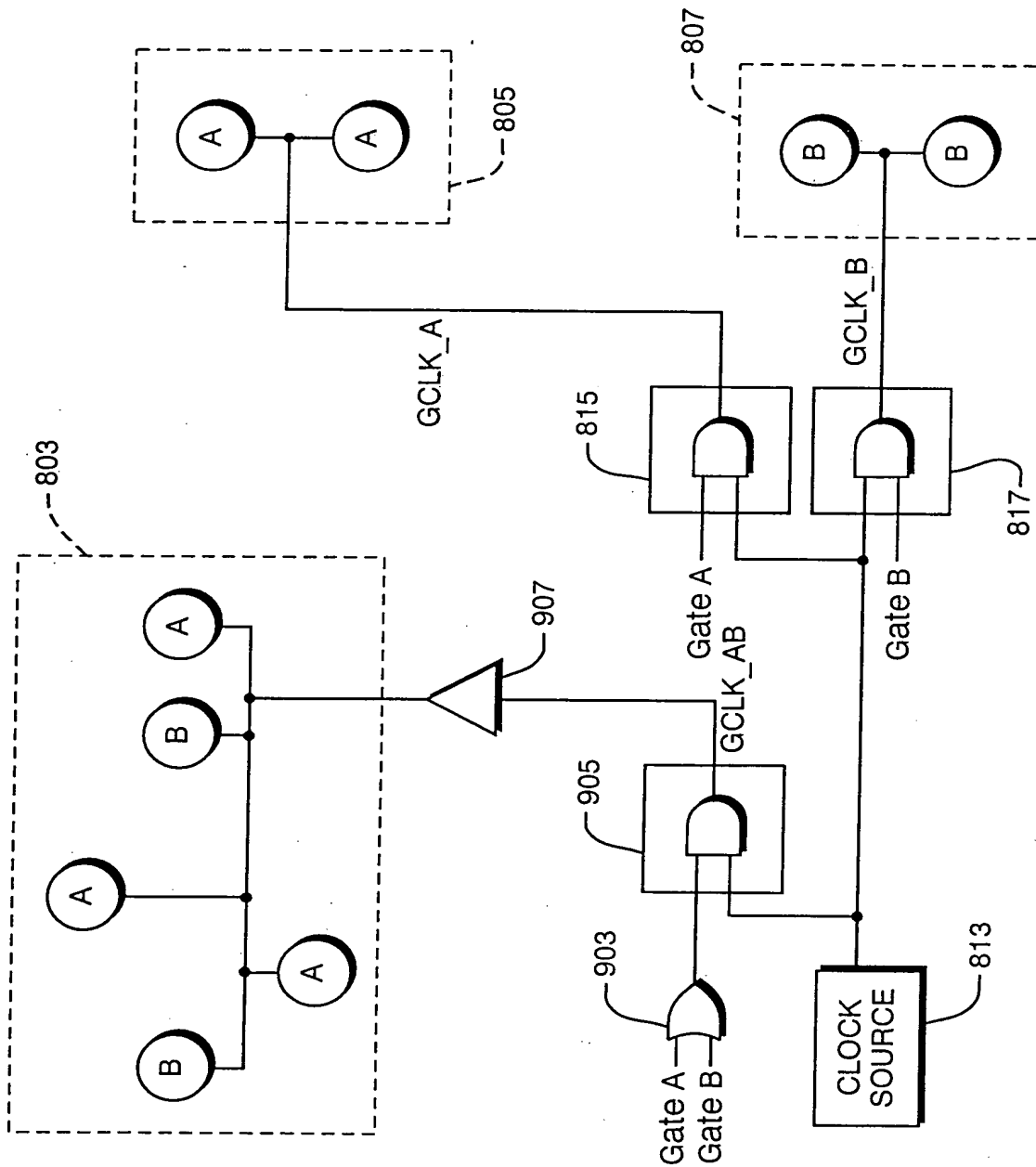


FIG. 9

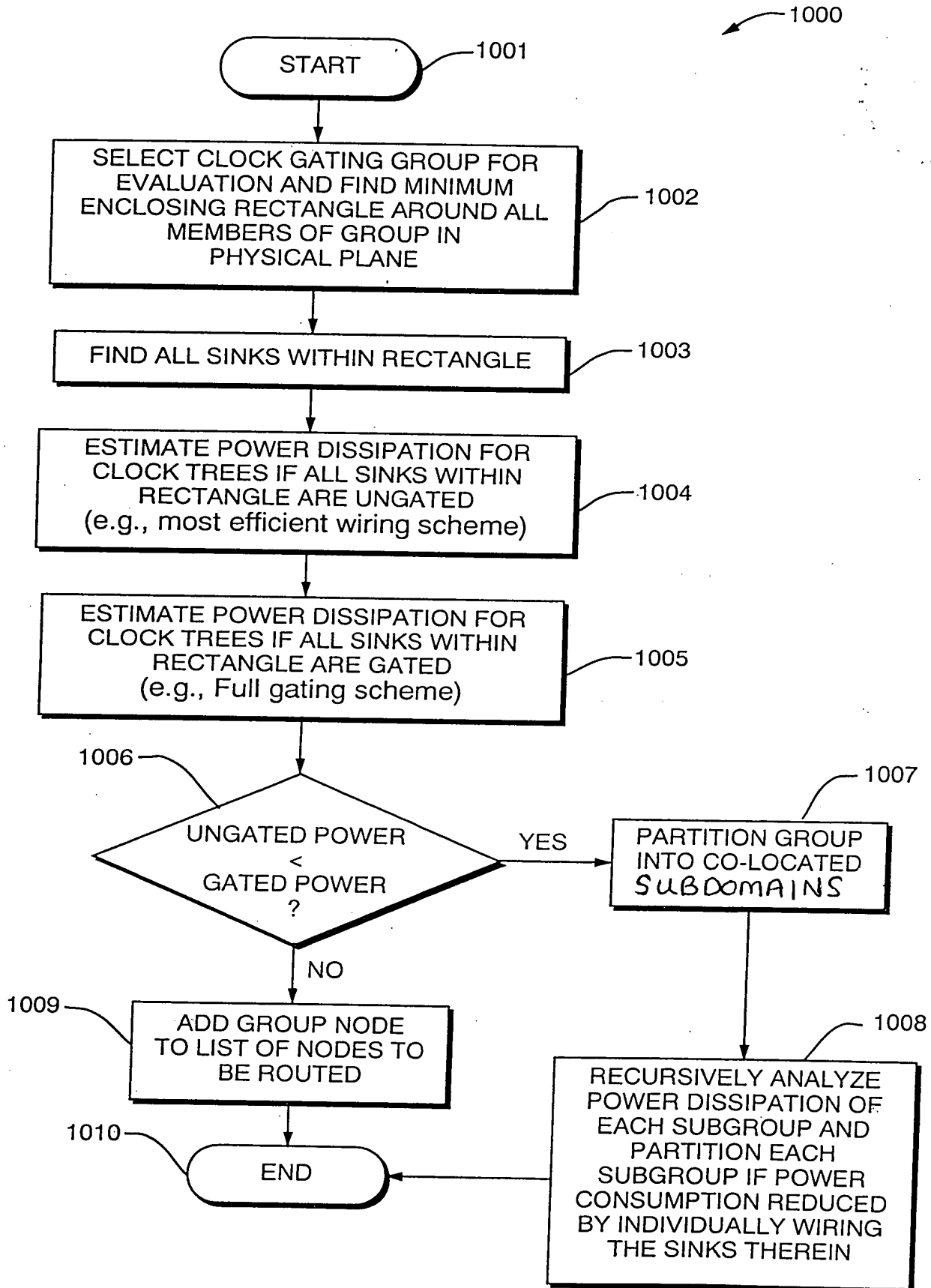


FIG. 10

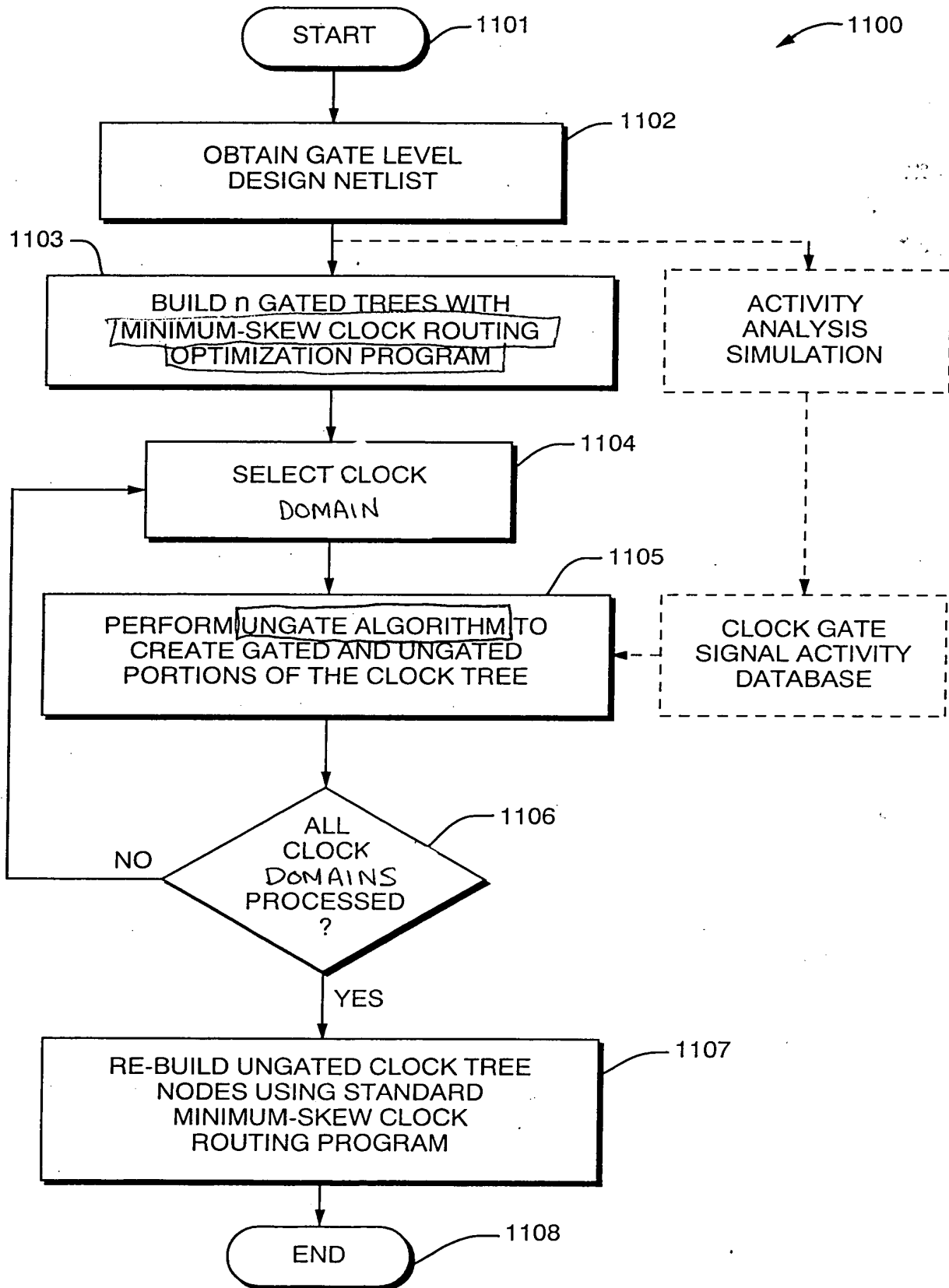


FIG. 11

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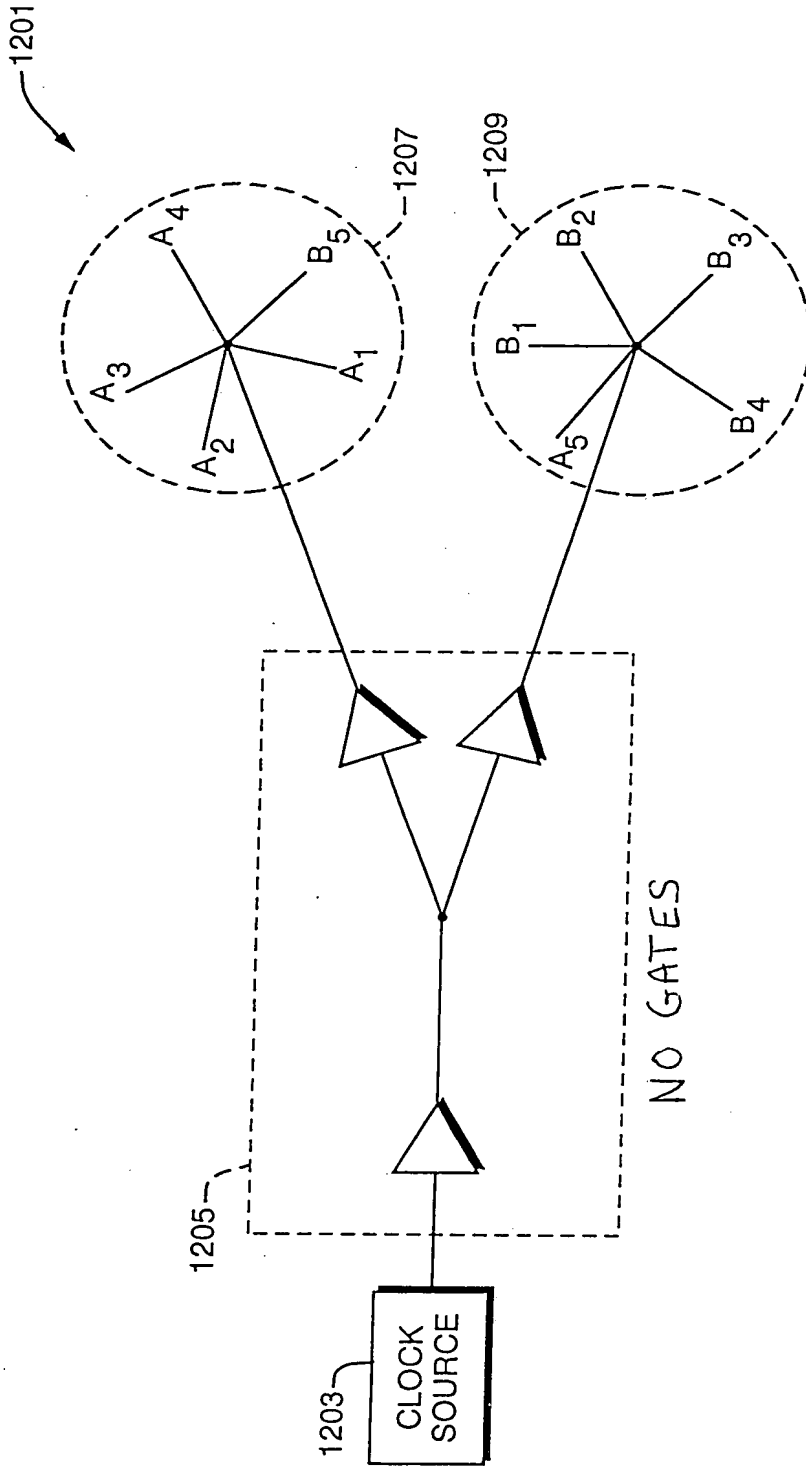


FIG. 12

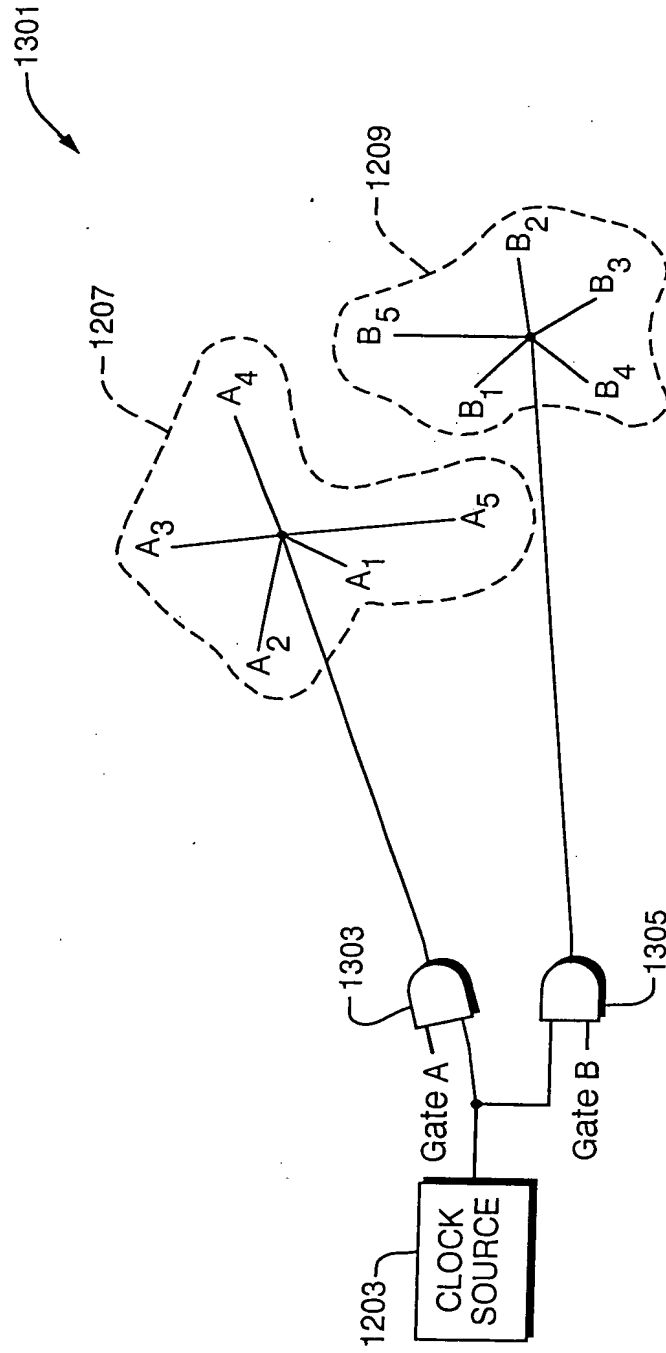


FIG. 13

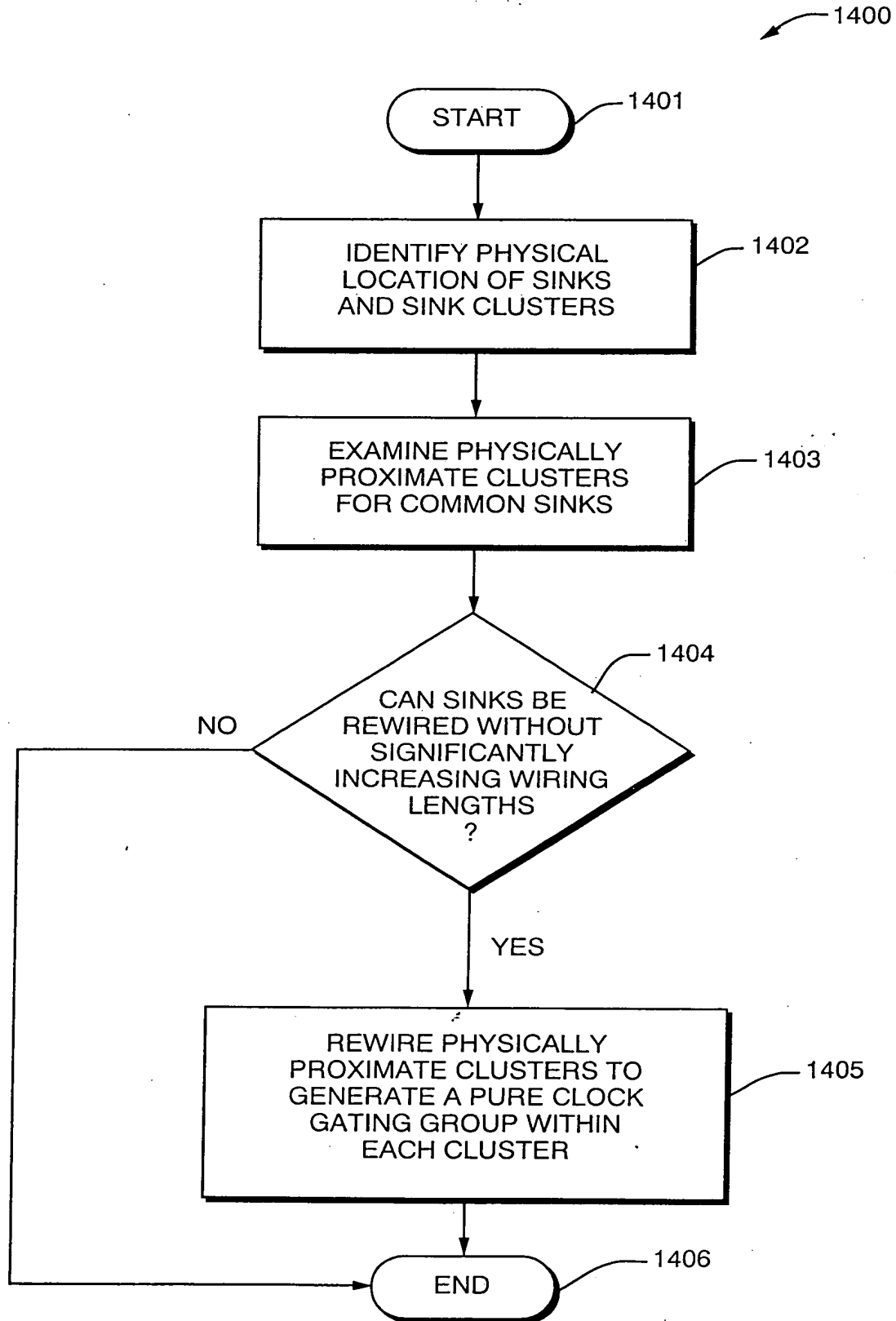


FIG. 14

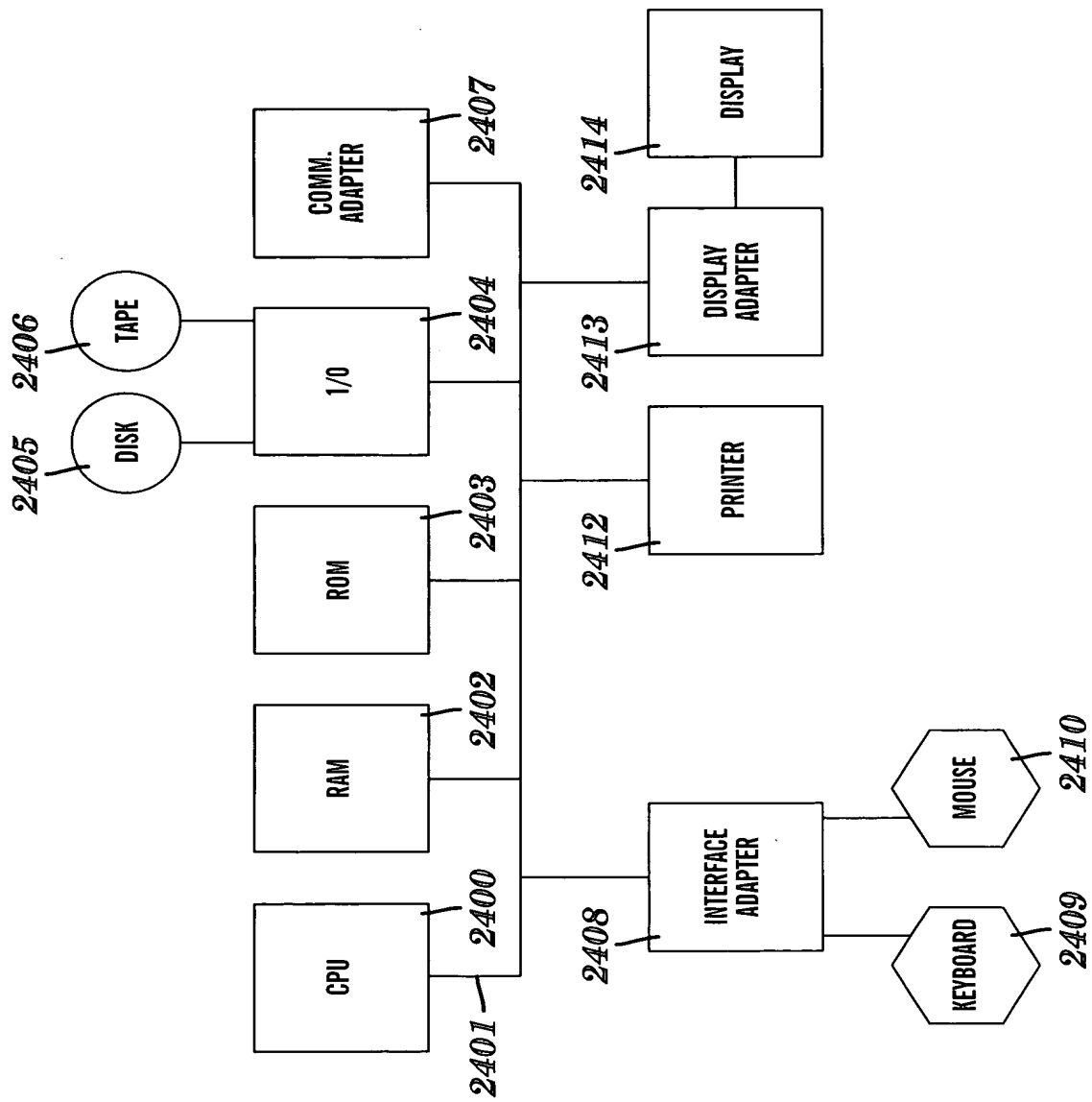


FIG. 15